

Title (en)

IMPROVED DBC STRUCTURE PROVIDED WITH A MOUNTING INCLUDING A PHASE-CHANGE MATERIAL

Title (de)

VERBESSERTE DBC-STRUKTUR, DIE MIT EINEM TRÄGERELEMENT AUSGESTATTET IST, IN DAS EIN MATERIAL MIT PHASENUMWANDLUNG EINGEBAUT IST

Title (fr)

STRUCTURE DBC AMELIOREE DOTEES D'UN SUPPORT INTEGRANT UN MATERIAU A CHANGEMENT DE PHASE

Publication

EP 3154082 A1 20170412 (FR)

Application

EP 16191935 A 20160930

Priority

FR 1559632 A 20151009

Abstract (en)

[origin: US2017103936A1] DBC type structure, comprising an insulating support (22) coated with at least one conductive zone (20a) able to receive an electronic device, the conductive zone (20a) being in contact with the support (22), the insulating support incorporating means for thermal smoothing of the heat peak released by the component, these means comprising a cavity filled with a phase change material (FIG. 1).

Abstract (fr)

Structure de type DBC, comprenant un support isolant (22) revêtu d'au moins une zone conductrice (20a) apte à accueillir un dispositif électronique, la zone conductrice (20a) étant en contact avec le support (22), le support isolant intégrant un moyen d'écrêtage thermique de pic de chaleur dégagée par le composant, ce moyen comprenant une cavité remplie d'un matériau à changement de phase (figure 1).

IPC 8 full level

H01L 23/427 (2006.01); **H01L 23/373** (2006.01)

CPC (source: EP US)

F28D 20/021 (2013.01 - US); **H01L 21/4871** (2013.01 - EP US); **H01L 21/4882** (2013.01 - US); **H01L 23/3672** (2013.01 - US); **H01L 23/3735** (2013.01 - EP US); **H01L 23/427** (2013.01 - EP US); **H01L 24/48** (2013.01 - US); **H05K 7/2039** (2013.01 - US); **H01L 2224/32225** (2013.01 - EP US); **H01L 2224/451** (2013.01 - EP US); **H01L 2224/48227** (2013.01 - EP US); **H01L 2224/48472** (2013.01 - EP US); **H01L 2224/73265** (2013.01 - EP US); **H01L 2924/00014** (2013.01 - EP US); **H01L 2924/1302** (2013.01 - US); **H01L 2924/13023** (2013.01 - US); **H01L 2924/13055** (2013.01 - US); **H01L 2924/13091** (2013.01 - US); **Y02E 60/14** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 16191935 A 20160930; FR 1559632 A 20151009; US 201615283827 A 20161003